BRUHAT BANGALORE MAHANAGARA PALIKE

ME OF THE PROJECT: MAINTENANCE AND REPAIR WORKS AT PRIMARY HEALTH CENTER AT AGRAHARA LAYOUT IN WARD NO. 05

MODIFIED ESTIMATION

inage in m	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate Rs	Amount Rs	Remarks
to										
m No.01	Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m, after breaking of clodscomplete and as per the directions of the Engineer-in-charge									
	Compound wall									
	South Side	Cum	1	50.35	0.75	0.85	32.10			
	East Side	Cum	1	54.80	0.75	0.85	34.94			
		Cum	1	47.70	0.75	0.90	32.20			
	North Side	Cum	1	80.05	0.75	0.90	54.03			
	Column footing	Cum	2	1.40	1.35	2.00	7.56			
						Total Executed Quantity	**160.82**			
						Tender Quantity	**90.45**			
						Now To be Paid Qty	**160.82**			
						Quantity Upto 125%	**113.06**	**508.78**	**57523.94**	
						Quantity Above 125%	**47.76**	**508.78**	**24300.19**	
No. 02	Providing and Filling in foundation with granite / trap broken metal 100mm. and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with all lead and lift, complete and as per the directions of the Engineer-in-charge									
	Compound wall									
	South Side	Cum	1	50.35	0.75	0.15	5.66			
	East Side	Cum	1	54.80	0.75	0.15	6.17			
		Cum	1	47.70	0.75	0.15	5.37			
	North Side	Cum	1	80.05	0.75	0.15	9.01			
	Column footing	Cum	2	1.40	1.35	0.15	0.57			
						Total Executed Quantity	**26.77**			
						Tender Quantity	**15.08**			
						Quantity Upto 125%	**18.85**	**2752.39**	**51882.55**	
						Quantity Above 125%	**7.92**	**2752.39**	**21794.09**	
o. 03	Providing and laying in position plain cement concrete of mix 1:4:8(M7.5)with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregtes @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete and as per the directions of the Engineer-in-charge									
		cum								
	Compound wall									
	South Side	Cum	1	50.35	0.75	0.15	5.66			
	East Side	Cum	1	54.80	0.75	0.15	6.17			
		Cum	1	47.70	0.75	0.15	5.37			
	North Side	Cum	1	80.05	0.75	0.15	9.01			
	Column footing	Cum	2	1.40	1.35	0.15	0.57			
						Total Executed Quantity	**26.77**			
						Tender Quantity	**15.08**			
						Quantity Upto 125%	**18.85**	**5781.26**	**108976.75**	
						Quantity Above 125%	**7.92**	**5781.26**	**45777.46**	

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BRUHAT BANGALORE MAHANAGARA PALIKE

E OF THE PROJECT: MAINTENANCE AND REPAIR WORKS AT PRIMARY HEALTH CENTER AT AGRAHARA LAYOUT IN WARD NO. 05

MODIFIED ESTIMATION

age in m To	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate Rs	Amount Rs	Remarks
No. 04	Providing and laying in position plain cement concrete of mix M15 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @0.878cum and fine aggregtes @ 0.53cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation,plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete and as per the directions of the Engineer-in-charge									
	Above SSM									
	Compound wall									
	South Side	Sqm	1	50.65	0.45	0.15	3.42			
	East Side	Sqm	1	54.80	0.45	0.15	3.70			
		Sqm	1	47.70	0.45	0.15	3.22			
	North Side	Sqm	1	80.35	0.45	0.15	5.42			
	Coping concrete									
	Compound wall									
	South Side	Sqm	1	50.65	0.20	0.10	1.01			
	East Side	Sqm	1	54.80	0.20	0.10	1.10			
		Sqm	1	47.70	0.20	0.10	0.95			
	North Side	Sqm	1	80.35	0.20	0.10	1.61			
	For Tiles									
	Sitting Area	Cum	1	4.50	3.60	0.15	2.43			
	Passage	Cum	1	11.30	3.00	0.15	5.09			
		Cum	1	5.20	0.70	0.15	0.55			
		Cum	0.5	5.20	2.30	0.15	0.90			
						Total Executed Quantity	**29.39**			
						Tender Quantity	**26.50**			
						Quantity Upto 125%	**29.39**	**6143.86**	**180563.44**	
o. 05	Providing and laying/fixing cement base, precast, pre polished cement concrete, designer tiles 25mm thick for flooring conforming to IS 1237 heavy duty tiles for flooring, treads of steps and landing, laid on a bed of 12mm thick cement mortar 1:3 mis finished with flush pointing using white cement, including cost of materials, mortar including cutting, griding the edge to half/full round wherever required, labour, curing complete and as per the directions of the Engineer-in-charge									
	Infront of Building									
	Sitting Area	sqm	1	4.50	3.60		16.20			
	Passage	sqm	1	11.30	3.00		33.90			
		sqm	1	5.20	0.70		3.64			
		sqm	0.5	5.20	2.30		5.98			
						Total Executed Quantity	**59.72**	**1396.02**	**83370.31**	
						Tender Quantity	**129.94**			
06	Providing and constructing granite / trap / basalt size stone masonry in foundation cement mortar 1:6, stone hammerddressed in courses not less than 20 cms high, bond stones at 2m apart in each course including cost of materials, labour, curing complete and as per the directions of the Engineer-in-charge									
	Compound wall									
	South Side	Cum	1	50.35	0.60	0.55	16.62			
	East Side	Cum	1	54.80	0.60	0.55	18.08			
		Cum	1	47.70	0.60	0.60	17.17			
	North Side	Cum	1	80.05	0.60	0.60	28.82			
						Total Executed Quantity	**80.69**			
						Tender Quantity	**48.24**			
						Quantity Upto 125%	**60.30**	**5207.89**	**314035.77**	
						Quantity Above 125%	**20.39**	**5207.89**	**106186.34**	

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BRUHAT BANGALORE MAHANAGARA PALIKE

OF THE PROJECT: MAINTENANCE AND REPAIR WORKS AT PRIMARY HEALTH CENTER AT AGRAHARA LAYOUT IN WARD NO. 05

MODIFIED ESTIMATION

e in m	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate Rs	Amount Rs	Remarks
To										
07	Filling available excavated earth (excluding rock) in sides of foundations upto plinth in layers not exceeding 20 cms. in depth, compacting each deposited layer by ramming after watering with lead upto 50 m. and lift upto 1.5 m. including cost of all labour complete and as per the directions of the Engineer-in-charge									
	Filling Available of Excavated Earth									
	Earth Work Excavation	Cum					160.82			
	PCC for Footing	Cum					-26.77			
	Filling in foundation with granite / trap broken metal	Cum					-26.77			
	SSM Footing	Cum					-80.69			
	Footing & column(below G.L) Concrete Quantity	Cum					-1.44			
						Total Executed Quantity	**25.16**			
						Tender Quantity	**12.06**			
						Quantity Upto 125%	**15.08**	**227.76**	**3433.48**	
						Quantity Above 125%	**10.08**	**227.76**	**2296.59**	
08	Conveying the excavated earth, debries etc., with all lead and lifts including loading and unloading charges etc., complete and as per the directions of the Engineer-in-charge									
		Cum	from ((Item no.1- item no.6)				135.67			
			(Excavated earth - filling available Earth)							
						Total Executed Quantity	**135.67**			
						Tender Quantity	**78.39**			
						Quantity Upto 125%	**97.99**	**70.39**	**6897.34**	
						Quantity Above 125%	**37.68**	**70.39**	**2652.20**	
09	Providing and constructing granite / trap / basalt size stone masonry in superstructure with cement mortar 1:4 , edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, scaffolding, curing complete and as per the directions of the Engineer-in-charge									
	Compound wall									
	South Side	Sqm	1	50.65	0.45	0.40	9.12			
	East Side	Sqm	1	54.80	0.45	0.40	9.86			
		Sqm	1	47.70	0.45	0.40	8.59			
	North Side	Sqm	1	80.35	0.45	0.40	14.46			
						Total Executed Quantity	**42.03**			
						Tender Quantity	**27.13**			
						Quantity Upto 125%	**33.91**	**6804.48**	**230756.93**	
						Quantity Above 125%	**8.12**	**6804.48**	**55235.38**	
10	Providing ruled pointing to coursed stone masonry with cement mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete and as per the directions of the Engineer-in-charge									
	Compound wall									
	South Side	Sqm	1	50.65		0.40	20.26			
	East Side	Sqm	1	54.80		0.40	21.92			
		Sqm	1	47.70		0.40	19.08			
	North Side	Sqm	1	80.35		0.40	32.14			
						Total Executed Quantity	**93.40**	**160.91**	**15028.99**	
						Tender Quantity	**120.60**			

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BRUHAT BANGALORE MAHANAGARA PALIKE

OF THE PROJECT: MAINTENANCE AND REPAIR WORKS AT PRIMARY HEALTH CENTER AT AGRAHARA LAYOUT IN WARD NO. 05

MODIFIED ESTIMATION

e in m	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate Rs	Amount Rs	Remarks
To										
o. 11	Providing and constructing load bearing wall with solid concrete blocks of size 400X200X200mm having block density not less than 1800kg/m3 having a minimum average compressive strength 5.00N/mm2 confirming to IS 2185 (part 1) :2005 and constructed with cement mortar 1:4,as per IS 2572:2005 including cost of materials, labour charges, scaffolding, curing, hire charges of machinaries etc.,complete and as per the directions of the Engineer-in-charge									
	Compound wall									
	South Side	Sqm	1	50.90		1.60	81.44			
	East Side	Sqm	1	54.80		1.85	101.38			
		Sqm	1	47.70		2.00	95.40			
	North Side	Sqm	1	80.60		0.40	32.24			
						Total Executed Quantity	**310.46**	**1033.42**	**320835.57**	
						Tender Quantity	**402.16**			
o. 12	Providing 18mm thick cement plaster in single coat with cement mortar 1:4, to brick masonry including rounding off corners. wherever required smooth rendering. Providing and removing scaffolding, including cost of materials, labour, curing complete and as per the directions of the Engineer-in-charge									
	Compound wall									
	South Side	sqm	2	50.90		1.60	162.88			
	Top	Sqm	1	50.90	0.20		10.18			
	East Side	sqm	2	54.80		1.85	202.76			
		sqm	2	47.70		2.00	190.80			
	Top	sqm	1	54.80	0.20		10.96			
		sqm	1	47.70	0.20		9.54			
	North Side	sqm	2	80.60		0.40	64.48			
	Top	Sqm	1	80.60	0.20		16.12			
	Columns	sqm	2	1.60		1.60	5.12			
	top	sqm	2	0.40	0.40		0.32			
						Total Executed Quantity	**673.16**	**295.75**	**199087.07**	
						Tender Quantity	**804.32**			
o. 13	Providing external walls with texture finish using approved brand paint, applied uniformly in three coats over one coat of primer including cost of all materials, machineries, labour, transportation, loading and unloading, all lead and lift and all other incidental charges including scaffolding and removing stains,complete and as per the directions of the Engineer-in-charge									
	Compound wall									
	South Side	sqm	2	50.90		1.60	162.88			
	Top	Sqm	1	50.90	0.20		10.18			
	East Side	sqm	2	54.80		1.85	202.76			
		sqm	2	47.70		2.00	190.80			
	Top	sqm	1	54.80	0.20		10.96			
		sqm	1	47.70	0.20		9.54			
	North Side	sqm	2	80.60		0.40	64.48			
	Top	Sqm	1	80.60	0.20		16.12			
	Columns	sqm	2	1.60		1.60	5.12			
	top	sqm	2	0.40	0.40		0.32			
						Total Executed Quantity	**673.16**	**385.27**	**259348.35**	
						Tender Quantity	**1162.72**			
o. 14	Fencing/ Railing KSRRB M800-17. G.I. Barbed Wire Fencing 1.2 Metre High-Providing and fixing 1.2 metres high GI barbed wire fencing with 1.8 m angle iron posts 40 mm x 40 mm x 6 mm placed every 3 metres center to center founded in M15 grade cement concrete, 0.6 metre below ground level, every 15th post, last but one end post and corner post shall be strutted on both sides and end post on one side only and provided with 9 horizontal lines and 2 diagonals interwoven with horizontal wires, fixed with GI staples, turn buckles etc complete and as per the directions of the Engineer-in-charge									

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BRUHAT BANGALORE MAHANAGARA PALIKE

OF THE PROJECT: MAINTENANCE AND REPAIR WORKS AT PRIMARY HEALTH CENTER AT AGRAHARA LAYOUT IN WARD NO. 05

MODIFIED ESTIMATION

ge in m	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate Rs	Amount Rs	Remarks
To										
	Item Not Opertaed									
o. 15	Providing and fixing conference table consisting of 25 mm thick PLPB table top edge bounded, 25 mm thick PLPB with edge bonded End table,18 mm thick PLPB with edge bonded Modesty, Hardware-Minifix assembly and screw leg., as per specifications, drawings and as directed by Engineer in charge 4800 mmX 2400mm X 750 mm Ht (20 seater) - U shaped with a top width of 600 mm.complete and as per the directions of the Engineer-in-charge									
	Item Not Opertaed									
o. 16	FREE STANDING TABLE FOR CABIN - WITHOUT FRAMES Providing and fixing Free Standing Table for Cabin- without frames consisting of 25 mm thick PLPB table top , 25 mm thick PLPB with edge bonded End table,18 mm thick PLPB with edge bonded Modesty, Wire manager -ABS plastic grommet one number per table Hardware-Minifix assembly and screw leg., as per specifications, drawings and as directed by Engineer in charge(Page No. , Item No.39.18.2)1500 mmW x 600mm D x 750 mm ht complete and as per the directions of the Engineer-in-charge									
	Item Not Opertaed									
o. 17	Supply of LED Streetlight luminaire with pressure die cast aluminium housing body for optimal thermal dissipation. Lamp compartment omprising of anti glare clear diffuser with Injection moulded polycarbonate material, delivering superior light output. Rated life Burning Hrs 50000 hr @ Lumen Maintenance of 70%, maximum light intensity should be between 60 degrees to 70 degrees. CCT > 5500K, IP 66 optical and electrical compartment & impact resistance of complete luminaire > IK08. Power Factor >0.9 with mains, Surge Protection- Min 5KV along with Over voltage/ Overload, short circuit/ miss-wiring protection. Compatible for pole mouting with outer dia of 40mm to 50mm. Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application. Compliance to IS 10322/IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB. Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools. LED Light fixture with .....W System Power consumption. LED Efficiency>130lm/w, nominal CRI >75. Luminaire manufacturer should have in-house facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility									
	Item Not Opertaed									
o. 18	Providing executive revolving chairs with full high back with head rest etc., complete inclusive of all taxes as per direction of engineer in charge (DSMS rate) complete and as per the directions of the Engineer-in-charge									
	Item Not Opertaed									
o. 19	Providing stainless steel visitor chairs (perforated) three seaters inclusive of all taxes & labour charges etc., complete (Quotation lowest rate) complete and as per the directions of the Engineer-in-charge									
	Item Not Opertaed									
o. 20	Providing Executive Netted Revolving Chair with high back with adjustable handle,adjustable head rest with steel chromium base inclusive of all taxes and transportation charges complete and as per the directions of the Engineer-in-charge									
	Item Not Opertaed									
	Providing and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paid separately) M20 Design Mix Using 20 mm nominal size graded crushed coarse aggregates									
	Column footing	Cum	2	1.20	1.20	0.35	1.01			
	Column (Below G.L)	Cum	2	0.40	0.40	1.35	0.43			
						Total Executed Quantity	**1.44**	**7797.79**	**11228.82**	
	Providing and laying in position Reinforced cement concrete for all Super structures of building , Road works, Water works, Irrigation works & super structure works of bridges upto 3.50 m height. The granite/ trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers laid in layers, well compacted using needle vibrators. The cost includes all lead & lifts, cost of all materials, quality confirming to the requirements of relevant IS codes , labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement, dowel bars & formwork to be paid separately) M20 Design Mix Using 20 mm nominal size graded crushed coarse aggregates									

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BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF THE PROJECT: MAINTENANCE AND REPAIR WORKS AT PRIMARY HEALTH CENTER AT AGRAHARA LAYOUT IN WARD NO. 05

MODIFIED ESTIMATION

Page in m	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate Rs	Amount Rs	Remarks
To										
	Columns	Cum	2	0.40	0.40	1.60	0.51			
	Total Executed Quantity						**0.51**	**8215.14**	**4206.15**	
E3	Providing Thermo-Mechanically Treated bars of grade Fe-500D or more Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position, binding and anchoring to adjacent members whereever necessary complete as per Design including cost of material, labour, usage charges complete as per specifications. (The laps and wastages shall not be measured separately)									
	Footing	Cum		Concrete Quantity			1.01			
		kg					75.76			
	Colomn	Cum		Concrete Quantity			0.94			
		kg					124.06			
	Total Executed Quantity						**199.82**	**122.34**	**24445.00**	
E4	Fabricating, providing and erecting in position of MS Hot Dip Galvanised Sq. Hallow Poles of 132 X 132 Heavy gauge of length 3000mm with MS. Hot dip Galvanised grill work as per approved design and drawing of chief architect. Using 12 X 75mm galvanised flat for alround frame and 20 X 20mm galvanised forged design with square for vertical at 150mm c/c as shown in the drawing including providing forged ornamental arrowhead at top and bottom. The work is inclusive of throughing flat, square rods, placing welding all the joints, including grinding, finishing 2 coats of anticorrosive paint over one coat of metal primer. The rate is inclusive of all materials like MS. Hollow galvanized pipe, flats, forged square rods, cost of labour for all items of work cost painting, welding, cutting, grinding with all lead and lift as per specification including loading and unloading with cost and conveyance of all materials, labour, machinery andincidental charges for the successful completion of the work as per the direction of the Engineer-in-charge of the work. (Data Rate)									
	Compound wall									
	South Side	Sqm	1	50.90		0.40	20.36			
	East Side	Sqm	1	54.80		0.40	21.92			
		Sqm	1	47.70		0.40	19.08			
	Total Executed Quantity						**61.36**	**9593.88**	**588680.77**	
								TOTAL AMOUNT	**2718543.50**	

Assistant Engineer
BBMP

Assistant Executive Engineer
BBMP

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

Executive Engineer
BBMP

Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore-92

Technical Sanction
Accorded For Rs 2718543.50
Head of A/C 23572
CER NO : ASA..... Dt: 14.06.2022

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